

Gold Medal 2022 – awarded products

PLANTS:

1. GROT – general purpose field pea

Poznańska Hodowla Roślin Sp. z o.o.

GROT field pea is a seed yield leader and one of the newest varieties on the market! It is characterized by a very high seed yield (up to 112% of the reference value) and high protein content. Plants mature evenly, they are very resistant to diseases and lodging.



2. JASPER F1 - white headed cabbage

PLANTICO - Hodowla i Nasiennictwo Ogrodnicze Zielonki Sp. z o.o.

Late hybrid variety - vegetation period approx. 130-135 days. It forms ball-shaped, compact and hard heads with light cream inside, weighing about 5 kg, without a tendency to crack. Exceptionally tasty. Grey and green outer leaves with a strong waxy coating and fine veins. Medium to dark colour intensity. Highly healthy variety - resistant to thrips, bacterial and fungal diseases. Recommended for fresh market and storage. Recommended density 30-40 thousand/ha



3. Winter barley, GIEWONT variety

DANKO Hodowla Roślin Sp. z o.o w Choryni

GIEWONT is the latest 6-row fodder variety of the DANKO breeding farm. High and stable yield and excellent adaptability to different climatic and soil conditions. A medium-early variety which is characterised by a rapid start of vegetation in spring and intensive growth in early spring. Plants 100-105 cm high, with good resistance to lodging. A variety recommended for medium intensive and intensive cultivation in barley soils. It has one of the highest winter hardiness in Poland (5.5) and good disease resistance (Mlo mildew resistance gene). Thick grain, well balanced, with a small amount of offal, with high protein content. Very good tillering. It is recommended to lower the sowing rate.



4. KEPLER - winter rape variety

HODOWLA ROŚLIN STRZELCE Sp. z o.o. Grupa IHAR

KEPLER is the first rapeseed population variety in Poland with a resistance gene to TuYV (turnip yellow virus). It yields better than all population varieties and many hybrid varieties available on the domestic market. In the extreme dry year 2019, it was the top yielding population variety achieving a yield of 115% of the reference value. Also in 2021, it obtained the best results among all population varieties tested in COBORU experiments in 2021 – yield increase compared to population reference values reaches 1300 kg/ha.

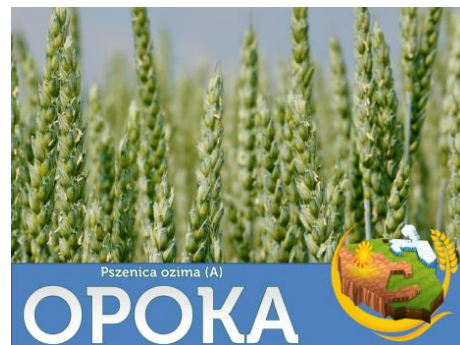


RZEPAK OZIMY
KEPLER
PLON W KOSMOS!

5. OPOKA - winter wheat variety

HODOWLA ROŚLIN STRZELCE Sp. z o.o. Grupa IHAR

OPOKA is one of the top yielding varieties of quality wheat right from the beginning. It is the leader in class A, yielding 104% - 102% - 101% of the reference value in 2019-2021 respectively. Stable and high yields in years with very different weather patterns indicate the exceptional flexibility of this variety. This is the result of many years of selection carried out under stress conditions. It has very good stem base disease performance, which is important for all those who choose to grow wheat in a cereal crop rotation.



6. Owies jary nagi spring naked oats

Małopolska Hodowla Roślin

Year of registration - 2020. Hulless variety. Low plants with a very high resistance to lodging. Excellent yielding in dry years. Very good tolerance to soil acidity. Early maturing and medium ripening variety. High to very high resistance to powdery mildew and oat rust, high resistance to helminthosporiosis, medium resistance to septoriosis. High protein content – approx. 18% and fat content – approx. 8%, as well as excellent grain nutritional value.



7. Merkawa spring wheat

Hodowla Roślin Smolice Sp. z o.o. Grupa IHAR

Merkawa spring wheat, quality class A. Very high yield potential - the variety was at the top of the PDO 2020 yield results at both agrotechnical levels. Early heading and ripening time - very good tolerance to periodical water shortages, excellent component for cereal mixtures. Excellent grain quality - high protein and gluten content, high and stable falling number and very good grain uniformity. Good plant health - high resistance to powdery mildew and yellow leaf spot, short stalk with good resistance to lodging. High tolerance to soil acidity.



8. Winter wheat, KARIATYDA variety

DANKO Hodowla Roślin Sp. z o.o. w Choryni

New (2020), high-quality (group A) winter wheat from DANKO breeding farm. High yields, both in medium-intense and intensive cultivation technology. Early variety, suitable for weak soils and dry years. Medium straw length and good lodging resistance. It is perfect for medium-quality soils. High winter-hardiness – 4.5 (in a 90 scale). Very good disease resistance. In line with the Green Deal strategy. Nice and coarse grain (mass of 1000 grains approx. 50 g), high uniformity with a small amount of offall. High SDS and falling number, yellow flour. It exhibits a quality that predisposes it to the milling industry. High tolerance to grain spillage. Very good tillering. Suitable for late sowing, especially after maize.



9. CORADO winter triticale

DANKO Hodowla Roślin Sp. z o.o w Choryni

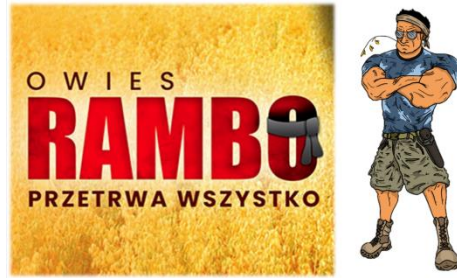
First population triticale sold in seed units! A new, very fertile variety of winter triticale bred by DANKO. Recommended for cultivation on medium quality soils – IVa-IVb class. A medium early variety with very good disease resistance. It has record high resistance to powdery mildew, brown rust, rhynchosporium secalis and fusarium head blight pathogens. In line with the Green Deal strategy. Very good winter hardiness (5.5 in 90 scale). A variety with medium short straw length and high resistance to lodging. It exhibits high resistance to sprouting of grain in the ear. Beautiful, coarse grain (mass of 1000 grains approx. 45 g) with very good uniformity and density. Triticale with very good tillering ability.



10. RAMBO - spring common oat variety

HODOWLA ROŚLIN STRZELCE Sp. z o.o. Grupa IHAR

RAMBO oats are distinguished by an exceptionally high yield. In the extremely dry year of 2019, RAMBO outclassed the other varieties with a result of 110% of the reference value. RAMBO consistently achieves the highest yield results in successive years of COBORU experiments (2020, 2021), which demonstrates its exceptional stability and flexibility in terms of soil and climatic requirements. In terms of 1000 grain weight and grain density, it ranks in the group of varieties with higher parameters of these characteristics, which guarantees good prices at the store.



11. SM Wawel

Hodowla Roślin Smolice Sp. z o.o. Grupa IHAR

No. 1 in grain yield – 111% of the reference value (126.6 dt/ha)
No. 1 in CCM yield – 111% of the reference value (219 dt/ha).
Strong. Stay-Green. Resistant to lodging. Recommended for cultivation throughout the country.



12. WIRTUOZ – spring barley

Poznańska Hodowla Roślin Sp. z o.o.

WIRTUOZ spring barley represents all of the most desirable features of a good plant, such as high and stable yield, health and resistance to changing soil and climatic conditions. With good size distribution and high tonne of grain weight, it provides excellent grain quality.



13. Dańkowskie DRAGON winter rye

DANKO Hodowla Roślin Sp. z o.o. w Choryni

Dańkowskie DRAGON is the latest rye variety by DANKO breeding farm, registered in 2020, with the best quality of all the population rye varieties on the market. Sold in seed units. A variety with high yield potential. Dańkowskie DRAGON has excellent quality parameters, which have also been confirmed by our business partners in France, Denmark and Germany, where it has been introduced to reproduction. An important feature is a high falling number, which makes the rye maintain good grain quality for a long time during wet harvest. It is good health rye. An early variety, of medium height (D. Granat type) and good resistance to lodging. It is also characterized by very good resistance to soil acidity, which predisposes it to cultivation on weaker soils). Medium mass of 1000 grains, with good uniformity.



MACHINE:

1. AEON DELTA FORCE 5200

HARDI GmbH

The brand new HARDI AEON CENTURAline sprayer combines advanced technology with lean agriculture principles – to have more while doing less.



2. AgriMaster S® Plus liquid fertiliser storage tank

Kingspan Water & Energy Sp. z o.o.

AgriMaster S® Plus is the first multifunctional tank on the Polish market designed for the storage of both liquid fertiliser and water, e.g. outside the fertiliser season. Available in the capacity of 22,000 l, it enables full tank loads of 25 tonnes of liquid fertiliser, leaving a space of 2,500-3,000 litres for diluting it directly in the tank. It is the capacity most requested by farmers. The grey colour of the tank is not accidental - it prevents algae from growing and helps to heat up the water for spraying.



3. Merlo E-Worker electric telescopic handlers

AGROM Sp. z o.o., Merlo S.P.A.

E-Worker is a product combining the features of many advanced and applied technologies in telescopic handlers and forklift trucks. It is a fully emission-free, fuel-efficient and noiseless electric-powered telescopic handler with a very broad range of applications.



4. EnergyMlx - gel foliar fertiliser with macro and micro nutrients

AGRAMI Sp. z o.o

energyMlx is a very powerful gel foliar fertilizer with macro- and micro-nutrients. The high concentration of ingredients makes it possible to use very small doses of fertilizer. The gel formulation makes the preparation of the spray easy and guarantees very good solubility of the fertilizer and nutrients absorption. It is intended for use in agricultural, vegetable and fruit crops. A proper proportion of easily accessible macro- and microelements guarantees: stimulation of plant growth and development, reduced response to water and thermal stress, increased resistance of plants to diseases and pests, regeneration of damaged plants, high yield, good quality crops. energyMlx, apart from basic macronutrients, also contains chelated form of Cu, Zn, Mn, Fe, Co, as well as silicon and cobalt. Additionally, it acts as an adjuvant, thus improving the properties of the spray and facilitating the penetration of components into the plant.



5. Robot FarmDroid FD20

Unisystems Ł. Dudek, B. Kądziaława, A. Kobus, D. Molek Spółka jawna, FARMDROID ApS

FarmDroid FD20 is fully automatic, thanks to its precise GPS RTK technology and photovoltaic power supply - it sows and weeds without the necessity to monitor its work. The distance between rows and distance between plants, sowing depth, speed and tolerances can be adapted to different crops, various soil types and individual farmer's preferences. FD20 is designed to handle different crops, so the same machine can be used for e.g. sugar beet and onions. So far, we have had experience with sugar beet, red beet, onions, spinach, kale, flower seeds, turnips, parsley, lettuce and various herbs, and more crops are constantly being added.



6. BISO 3D Varioflex Air header for grain and soybean harvesting

Biso GmbH

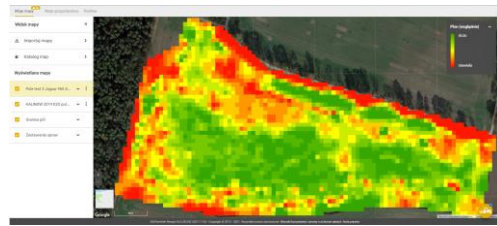
Weight optimisation with simultaneous increase in stability for cutting widths up to 18.5 m. Picking up different crops without repositioning times, intelligent adjustment of the cutter bar to the terrain. Precise cutting at the desired height. Minimal losses on the cutting table.



7. Innovative 365FarmNet modules for soil protection, food safety and reducing agricultural production costs

365FarmNet Group KGaA mbH & Co KG, Michelin Polska S.A.

365FarmNet is a farm management software programme built around innovative modules for soil conservation, food safety and agricultural production costs reduction. Among the wide range of modules supporting crop production, the following systems stand out in particular: the Agropressure module by Michelin, LACOS field trip planning, automatic field documentation using the 365Active system, and the 365FarmNet Crop View module.



8. INOMEL – innovative water circulation control system for land reclamation facilities

Institute of Technology and Life Sciences, National Research Institute, University of Life Sciences in Poznań, Warsaw University of Life Sciences, University of Life Sciences in Wrocław, AGROCOM Polska Jerzy Koronczok, Geofabryka Sp. z o.o. / AGROCOM POLSKA Jerzy Koronczok

The INOMEL system related to agricultural land reclamation is the answer of Polish scientists to the climatic and market challenges affecting the conditions of agricultural production. Target audiences include farmers, land tenants, water companies and other organisations in the agricultural environment. The system is based on mathematical models of under seepage irrigation and regulated drainage, meteorological forecasts and simple land reclamation devices, as well as remote sensing support useful for assessing the condition of field crops.



9. The SatAgro platform profitability module (mapping the profitability of agricultural fields)

SATAGRO Sp. z o.o.

The innovative module of the SatAgro platform enables the mapping of profitability of agricultural fields and a detailed analysis of its components – costs and revenues, taking into account their spatial differentiation in various periods. Thanks to easy access to full information on expenses incurred on cultivation and the possibility of comparing them with the results achieved, farms can focus on ensuring the profitability of their production rather than maximising yields at any cost.



10. Mzuri Pro-Til XZACT combined cultivator and seed drill

MZURI-AGRO Sp. z o.o. Sp. k.

Mzuri Pro-Til Xzact is an innovative precision combined cultivator and seed drill for sowing e.g. maize, soybean, oilseed rape, and sunflower. The XZACT system is equipped with an electronic seeding unit which allows precise seeding of individual seeds. Constant hydraulic pressure on each coulter arm ensures even seeding depth. The system is equipped with a seed metering mechanism with vacuum control, which allows precise placement of seeds regardless of their size.



11. Lider calcium fertilizers with unique MicroActive technology

ROLPOL OŁDAKOWSCY Sp. j.

Lider calcium fertilizers produced with the use of the unique MicroActive technology are manufactured thanks to very fine grinding of dolomite rocks. As a result of this technology, we obtain active lime particles with dimensions below 10 microns. The final drying process results in hard lime granules with minimal water content. Thanks to screening and dedusting of the granules, easy sowing is possible. The granules are 100% water-soluble. Reactivity over 90%. 100% organic fertilizer.



12. eAgronom carbon programme

eAgronom Sp. z o.o.

Agriculture can help reverse carbon pollution of our planet. Agricultural practices associated with sequestering atmospheric carbon and reducing its emissions are called carbon farming. As a result of these practices, the so-called carbon credits are created. It is an opportunity to secure the future of farms in financial and environmental terms. At eAgronom, we believe that carbon farming can help create sustainable and climate-resilient farms.



13. TITAN 860

SAMASZ Sp. z o.o.

TITAN 860 is a double-sided rear flail mower, which together with the MAMUT 280 or 300 front mower provides the biggest working width in the offer of SaMASZ flail mowers – even up to 8.6 m. Thanks to exceptionally robust construction, the machine can be used in very difficult conditions. It is designed for mulching plant residues and stubble fields after maize, cereals, sunflowers, and also uncultivated land. TITAN 860 is also used for controlling the European corn borer, a pest which affects maize.

